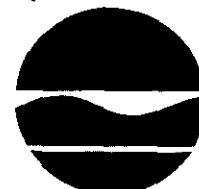


New York State Department of Environmental Conservation
Division of Fish, Wildlife, and Marine Resources
Wildlife Pathology Unit
108 Game Farm Road, Delmar, NY 12054

EFED 8/1/02

I013117-001



Erin Crotty
Commissioner

July 22, 2002

Ms. Marcia Lenehan
Albany County Department of Health
75 Green Street
Albany, New York 12201

Personal privacy information

RE: American Crow (ALB020013)

Dear Ms. Lenehan:

The following is a summary of history and findings for this case.

History: This American crow was found on the side yard of [REDACTED] at [REDACTED], Town of Colonie, (Albany County) New York on January 22, 2002. The crow was received by the Wildlife Pathology Unit on January 23, 2002 and necropsied the same day.

Findings: A young-of-the-year in 2001. The bird was in fair flesh (traces of subcutaneous fat present). There was no evidence of traumatic injuries. There was a hydropericardium, and the pericardium was distended with clear fluid (not the usual straw-color). There was little blood in the heart. The spleen measured 4X20 mm and was pale with blister-like lesions. The liver was pale as were the kidneys. The lungs were pale and were congested with pink fluid. The intestines were pale. Clotted blood was present in the lumen. There were lesions present in the intestine that looked like those caused by *Acanthocephala*. The lesions were not typical of the necrotic enteritis that has been observed at this time in other crows from the Hudson Valley.

The ventriculus (gizzard) was empty, but the lining was coated with mucous.

Several tentative diagnoses including anticoagulant rodenticide poisoning and Reo Virus infection were made. Samples of brain, kidney, heart, and spleen were taken for ARBO virus studies.

The brain, liver, and gizzard lining were taken for potential toxicological studies.

Pieces of spleen, heart, liver, lung, and small intestine were taken for histology.

Virology: (Test for West Nile Virus was done by Wadsworth Laboratory of the New York State Department of Health). The test was negative for West Nile Virus.

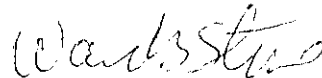
Toxicology (See attached laboratory report(s) from the Illinois Department of Agriculture, Bureau of Animal Disease Laboratory, Centralia, Illinois): No organophosphate, carbamate, or chlorinated hydrocarbon pesticides were detected in the gizzard lining. The liver contained 1.73 ppm of the anticoagulant rodenticide Brodifacoum.

ISB recd
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Diagnosis: Anticoagulant rodenticide poisoning with Brodifacoum. It is possible that a Reo Virus was involved in this case and that hemorrhage from intestinal lesions (an perhaps, lesions elsewhere) lead to mortality before the typical lesions seen in necrotic enterites mortalities developed.

Comments: This bird has not yet been tested for Reo Virus at the ARBO Virus Laboratory. Histopathology has not yet been performed, although they will be in the future as other diagnostic pressures subside.

Sincerely,



Ward B. Stone
Wildlife Pathologist

Attachment(s)

WBS:rd

cc: N. Mastrola (USEPA)
B. Rattner (Patuxent)
K. McGowan
A. Johnsen
L. Skinner
Toxicant Case Binder
HIN

Diagnostic findings may not be used for publication without the pathologist's knowledge and consent.



NECROPSY
FILE

GEORGE H. RYAN, GOVERNOR
JOE HAMPTON, DIRECTOR

Bureau of Animal Disease Laboratory

PHONE: 618-532-6701

FAX: 618-532-1195

ANIMAL DISEASE LABORATORY
9732 SHATTUC ROAD
CENTRALIA, ILLINOIS 62801

TOXICOLOGY DEPARTMENT REPORT

VETERINARIAN

OWNER

NEW YORK WILDLIFE
108 GAME FARM RD
DELMAR

NY 12054

NEW YORK WILDLIFE ALB020013

ACCESSION
NUMBER:

2002013529

DATE

REPORTED: 06/24/2002

DATE

RECEIVED: 06/11/2002

SPECIMEN

SPECIES:

RECEIVED: ALB020013 AMERICAN CROW GIZZARD LINING

TEST

REQUESTED: PESTICIDE SCREEN

RESULTS:

ORGANO-PHOSPHATES AND CHLORINATED HYDROCARBONS - NONE DETECTED

CARBAMATES - NONE DETECTED

CHEMIST

APPROVED

LABORATORY
SUPERVISOR

PLEASE NOTIFY OWNER OF THESE RESULTS WITHOUT DELAY

LRAC

3



Illinois
Department of
Agriculture

NECROPSY

FILE
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TOXICOLOGY DEPARTMENT REPORT

VETERINARIAN

OWNER

NEW YORK WILDLIFE
108 GAME FARM RD
DELMAR

NY 12054

NEW YORK WILDLIFE ALB020013

ACCESSION
NUMBER:

2002013528

DATE

REPORTED: 07/03/2002

DATE

RECEIVED: 06/11/2002

SPECIMEN

SPECIES:

RECEIVED: ALB020013 AMERICAN CROW LIVER

TEST

REQUESTED: ANTICOAGULANT SCREEN

RESULTS:

ANTICOAGULANTS

BRODIFACOUM - 1.73 ppm

ALL OTHER ANTICOAGULANTS - NONE DETECTED

THE FOLLOWING TOXINS ARE INCLUDED IN THE ANTICOAGULANT SCREEN

FUMARIN
RACUMIN
WARFARIN
COUMACHLOR
DIFENACOUM
BRODIFACOUM

DIPHACINONE
PINDONE
VALONE
CHLOROPHACINONE
BROMADIOLONE
DIFETHIALONE

(rac)

CHEMIST

APPROVED

LABORATORY
SUPERVISOR

[Signature]

[Signature]

[Signature] DVM
(RAE)